Express Mail Label No. EV339760525US

Current IMS Database

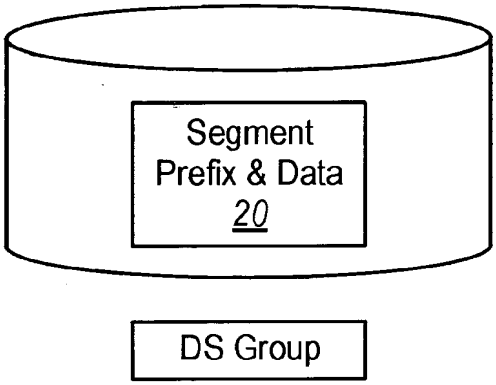

FIG. 1A
(Prior Art)

Invention Database

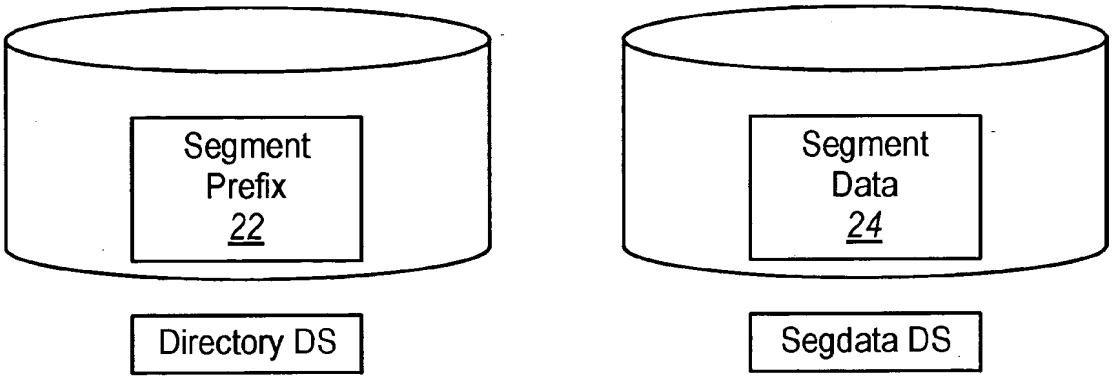

FIG. 1B

Layout Of Segment In Directory Dataset

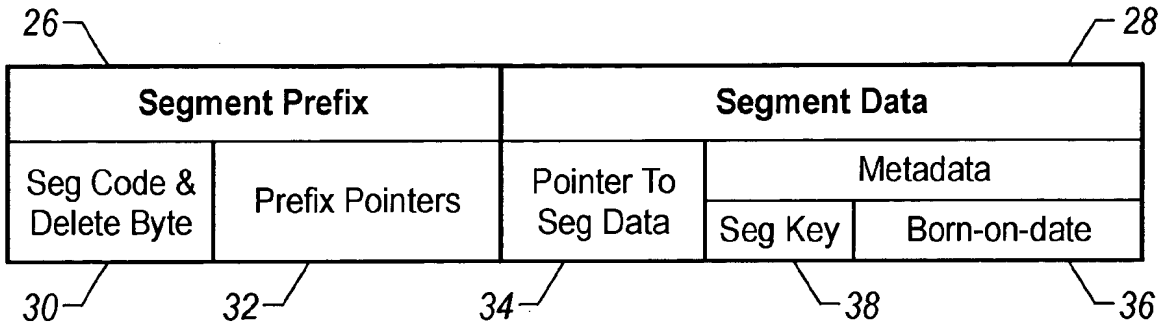

FIG. 2A

Layout Of Segment In Segdata Dataset

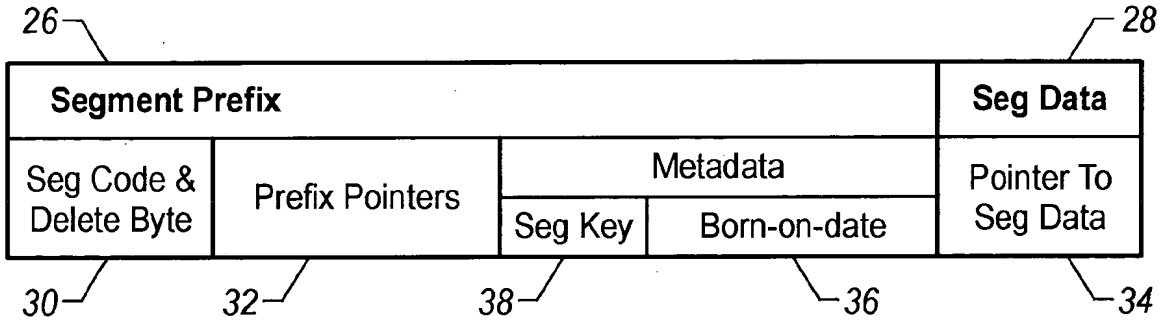

FIG. 2B

Layout Of Segment In Segdata Dataset

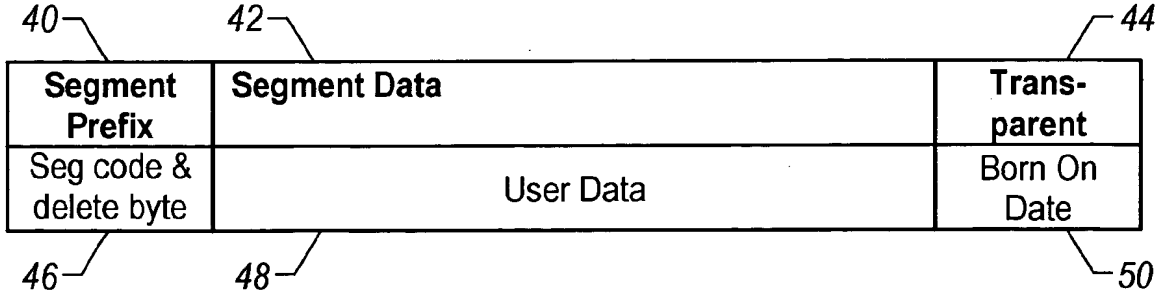

FIG. 3

20070530:135705:3600

```
DBD      NAME=IVPDB1,ACCESS=(HIDAM,OSAM)

DIR      DD1=DFSIVD1,SIZE=2048, UOW=(500,50,10)

DATASET DD1=DFSIVD1A,DEVICE=3380,SIZE=2048
SEGM    NAME=A1111111,PARENT=0,BYTES=40,RULES=(LLV,LAST),PTR=(TB,CTR)
FIELD   NAME=(A1111111,SEQ,U),BYTES=010,START=00001,TYPE=C
FIELD   NAME=A9999999,BYTES=010,START=00011,TYPE=C
LCHILD  NAME=(A1,IVPDB1I),POINTER=INDX,RULES=LAST
LCHILD  NAME=(A1X,IVPDB1X),POINTER=INDX
XDFLD   NAME=AXXXXXXX,SEGMENT=A1111111,SRCH=(A9999999)
LCHILD  NAME=(C1X, IVPDBIZ),POINTER=INDX
XDFLD   NAME=CXXXXXXX,SEGMENT=C1111111,SRCH=(C9999999)

DATASET DD1=DFSIVD1B,DEVICE=3380,SIZE=4096
SEGM    NAME=B1111111,PARENT=A1111111,BYTES=(1000,50),                  X
                RULES=(LLV,LAST),PTR=(TB)
FIELD   NAME=(B1111111,SEQ,M),BYTES=010, START=00003,TYPE=C
FIELD   NAME=/SXB1
LCHILD  NAME=(B1X,IVPDB1Y),POINTER=INDX
XDFLD ..NAME=BXXXXXXX,SEGMENT=B1111111,SRCH=(B1111111),SUBSEQ=(/SXB1)

DATASET DD1=DFSIVD1C,DEVICE=3380,SIZE=8192
SEGM    NAME=C1111111,PARENT=B1111111,COMPRTN=(DFSKMPXO,DATA,INIT),     X
                RULES=(LLV,LAST),PTR=(TB),BYTES=(8000,50)
FIELD   NAME=(C1111111,SEQ,U),BYTES=010,START=00003,TYPE=C
FIELD   NAME=C9999999,BYTES=010,START=00011,TYPE=C

DIRGEN

DBDGEN
FINISH
END
```

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FIG. 4A

```
DBD     NAME=IVPDB2,ACCESS=HDAM,RMNAME=(DFSHDC40,4,1000)

DIR     DD1=DFSIVD2, UOW=(100,10)

DATASET DD1=DFSIVD2A,DEVICE=3380,SIZE=2048
SEGM    NAME=A1111111,PARENT=0,BYTES=40,RULES=(LLL,LAST),                X
              COMPRTN=(DFSKMPX0,DATA,INIT)
FIELD   NAME=(A1111111,SEQ,U),BYTES=010,START=00001,TYPE=C

DATASET DD1=DFSIVD2B,DEVICE=3380,SIZE=4096
SEGM    NAME=B1111111,PARENT=A1111111,BYTES=(1000,50),                   X
              RULES=(LLV,LAST),PTR=(TB)
FIELD   NAME=(B1111111,SEQ,U),BYTES=010,START=00003,TYPE=C

DATASET DD1=DFSIVD2C,DEVICE=3380,SIZE=8192
SEGM    NAME=C1111111,PARENT=B1111111,COMPRTN=(DFSKMPXO,DATA,INIT),
        RULES=(LLV,LAST),PTR=TB,BYTES=8000
FIELD   NAME=(C1111111,SEQ,U),BYTES=010,START=00001,TYPE=C

DIRGEN

DBDGEN
FINISH
END
```

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FIG. 4B

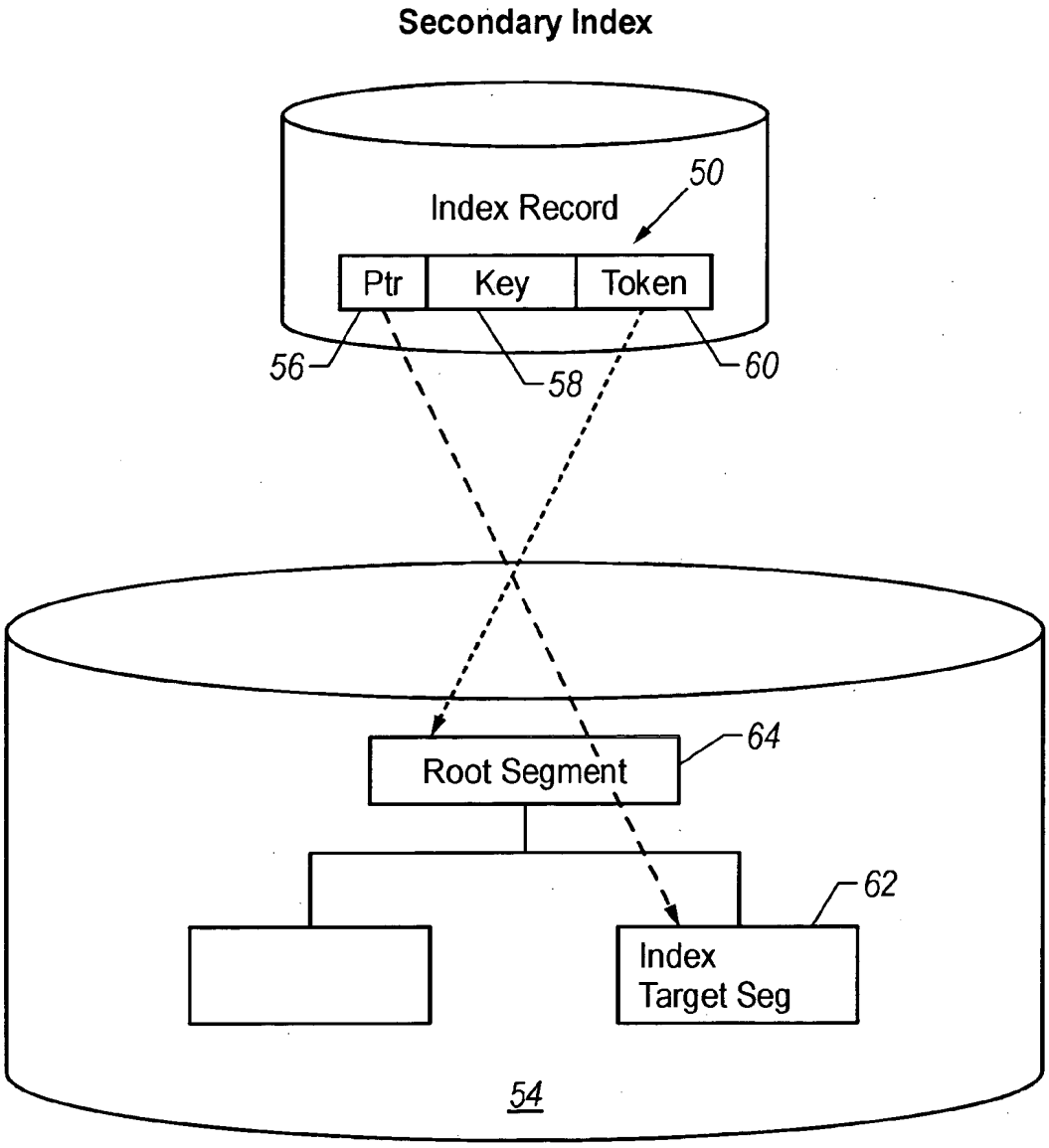

FIG. 5

20030030-050702

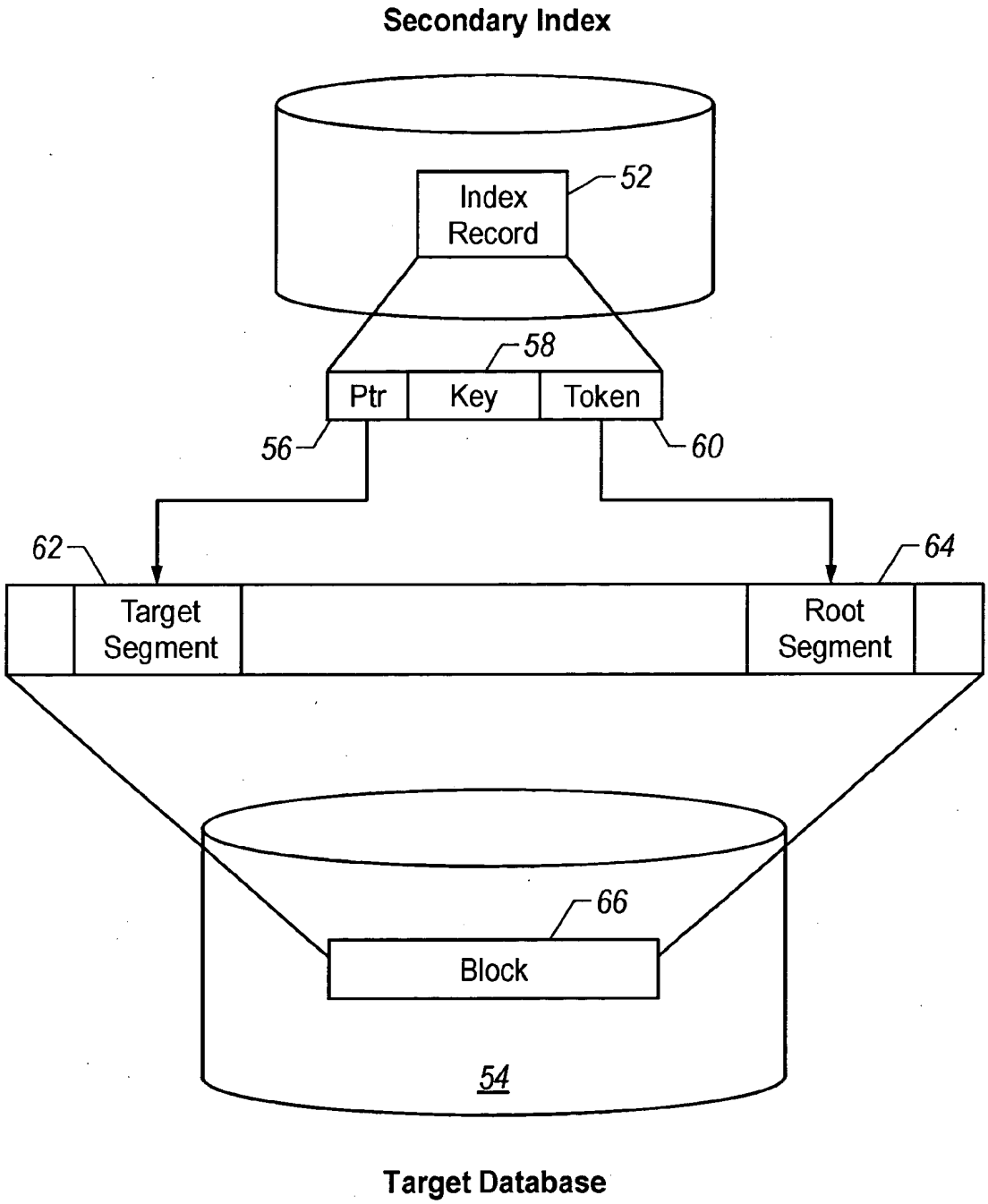

FIG. 6

EDS-3033-05470

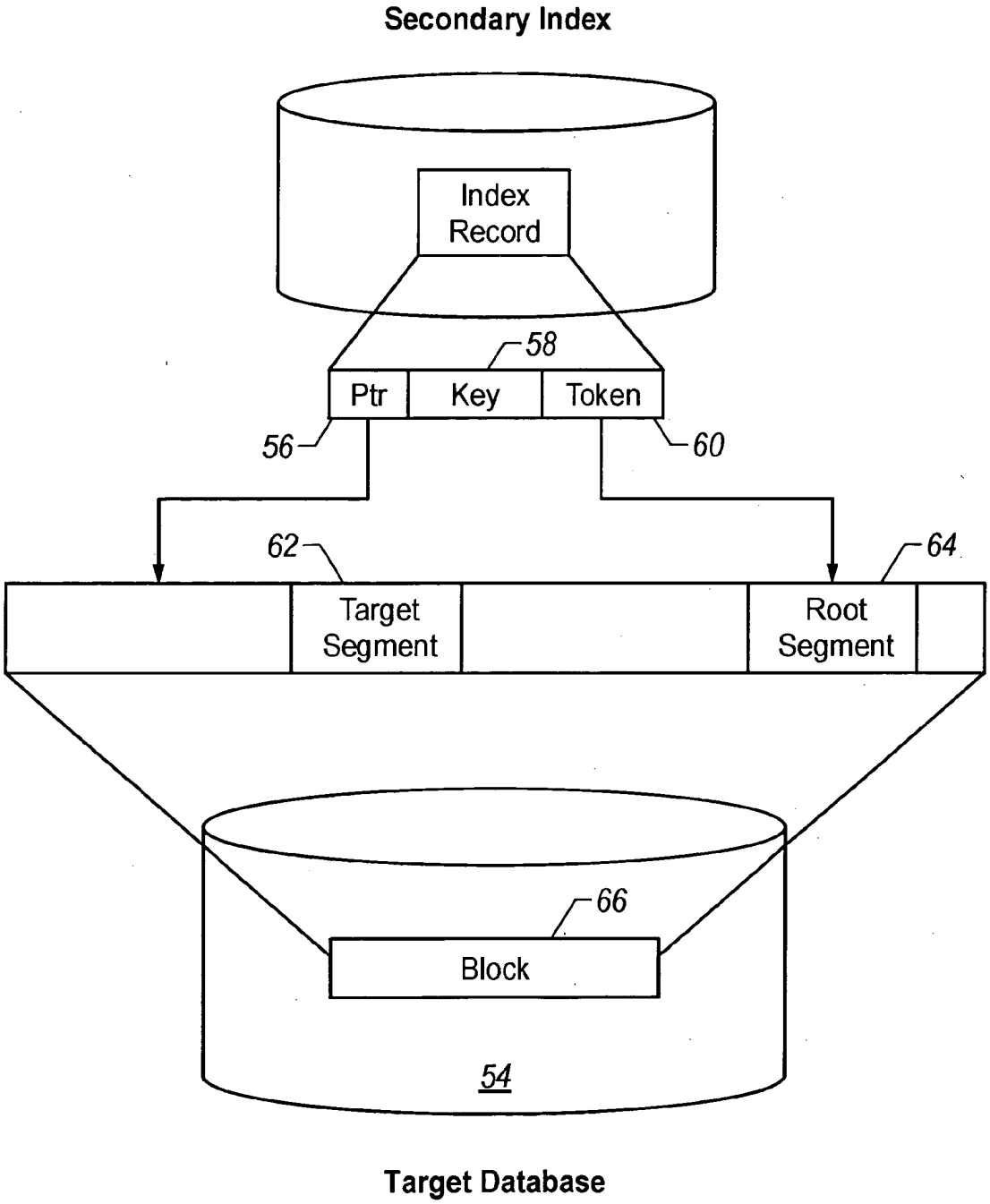

FIG. 7

Express Mail Label No. EV 335 145 705

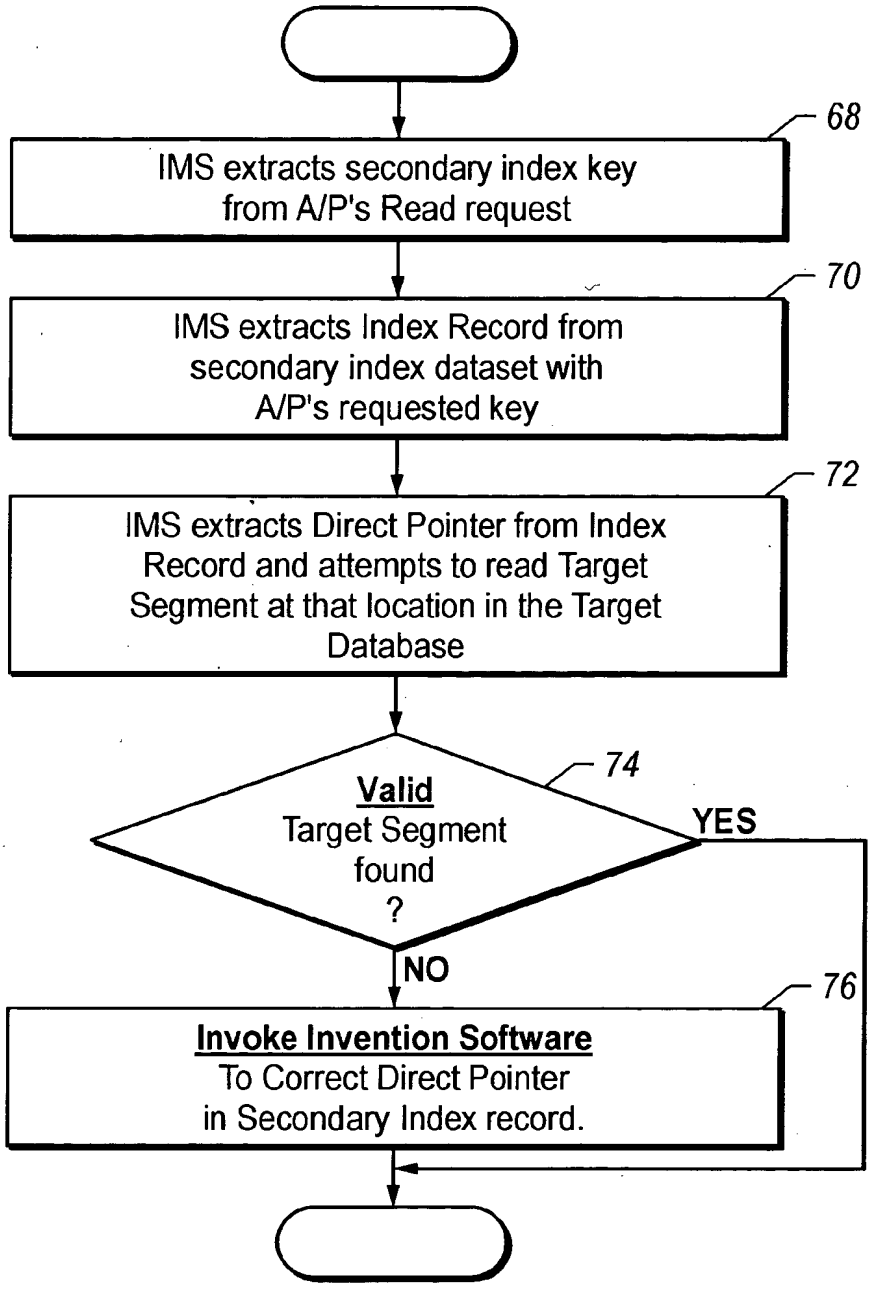

FIG. 8

EDS3938.05420

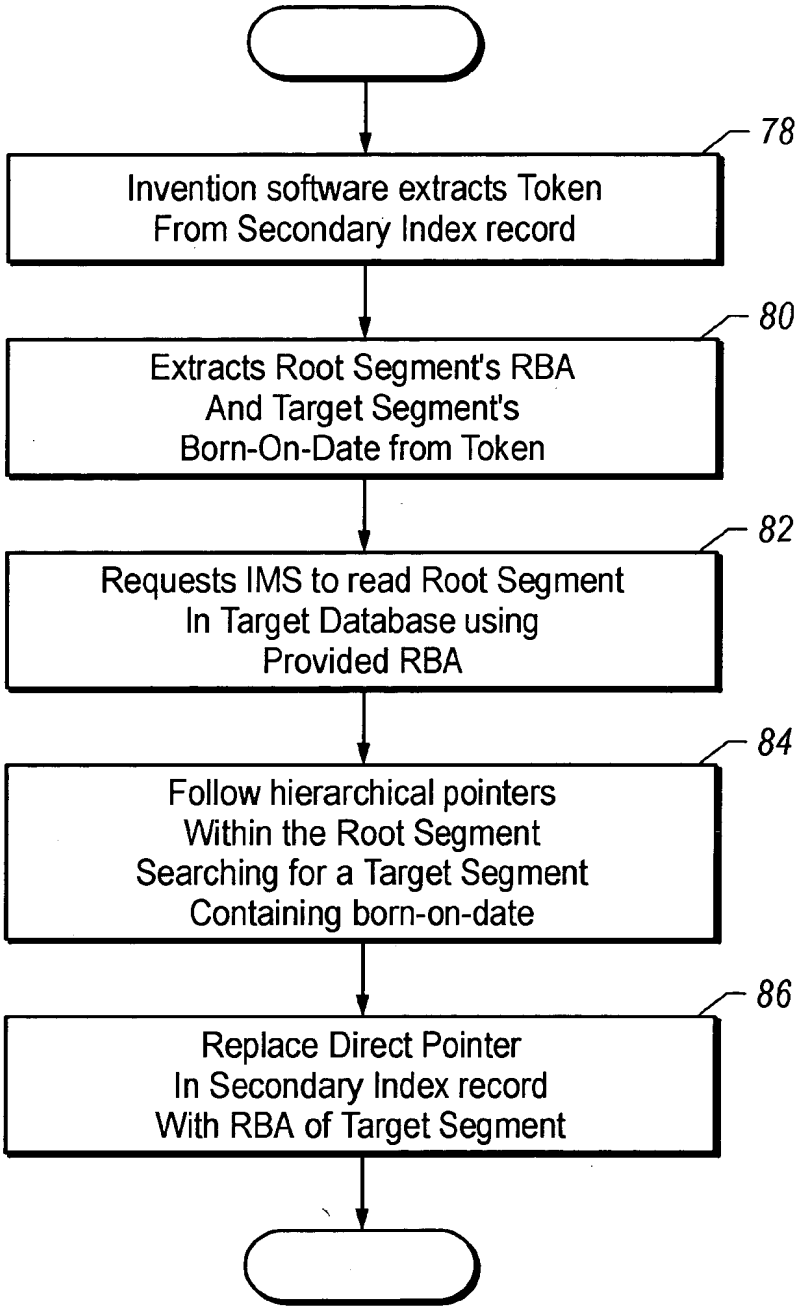

FIG. 9

EMC-2003.0154.US

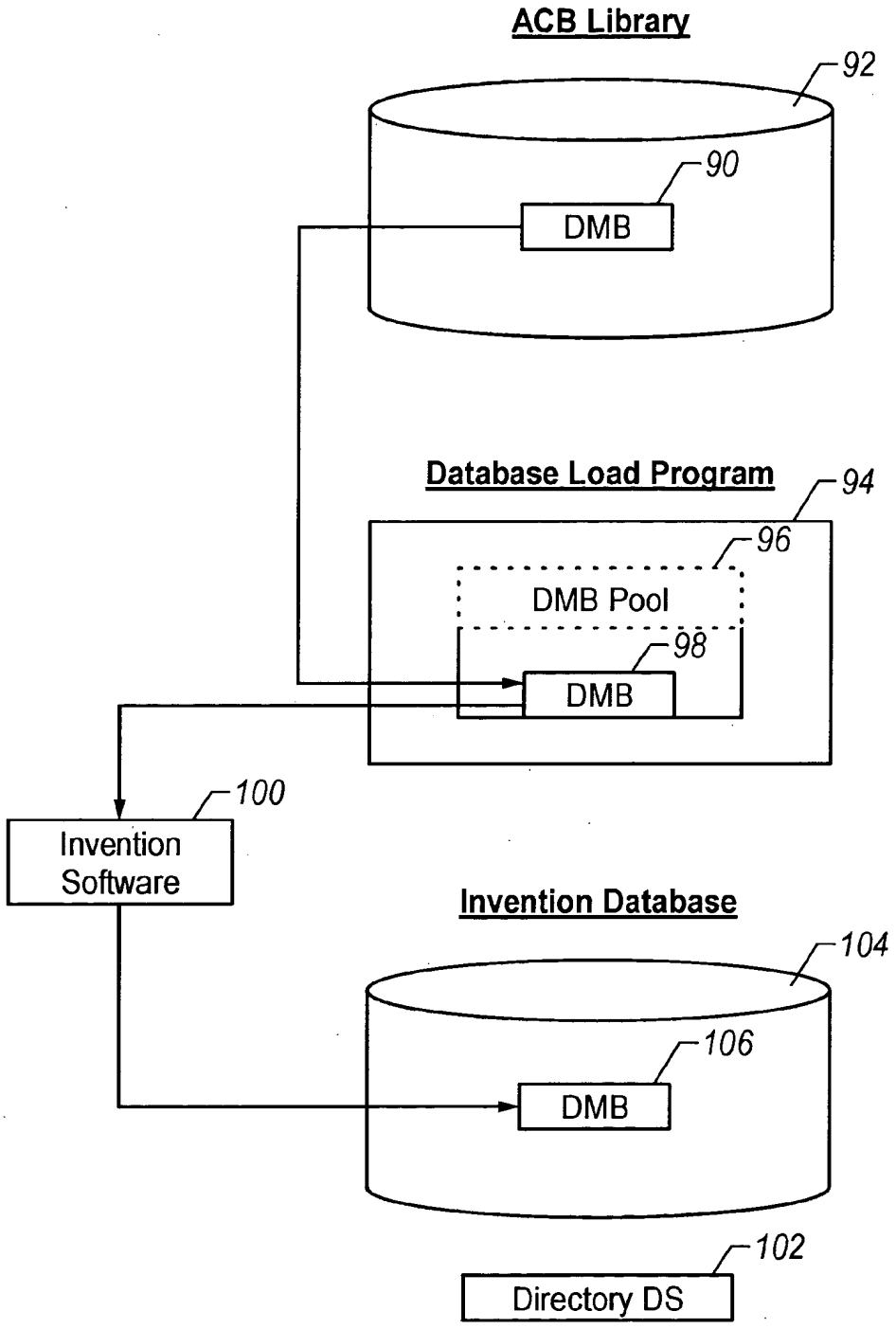

FIG. 10

Doc Code: Appeal Brief

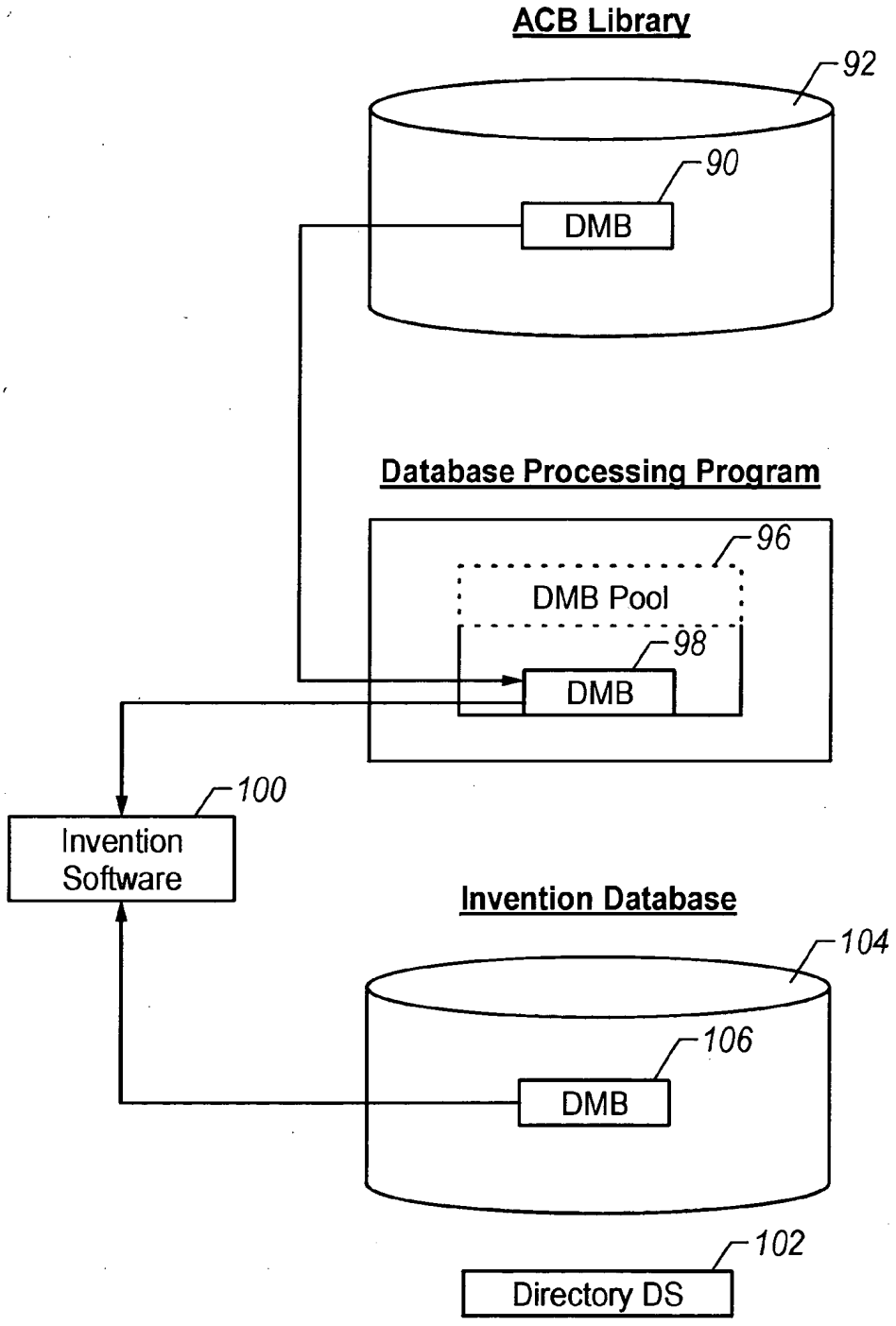

FIG. 11

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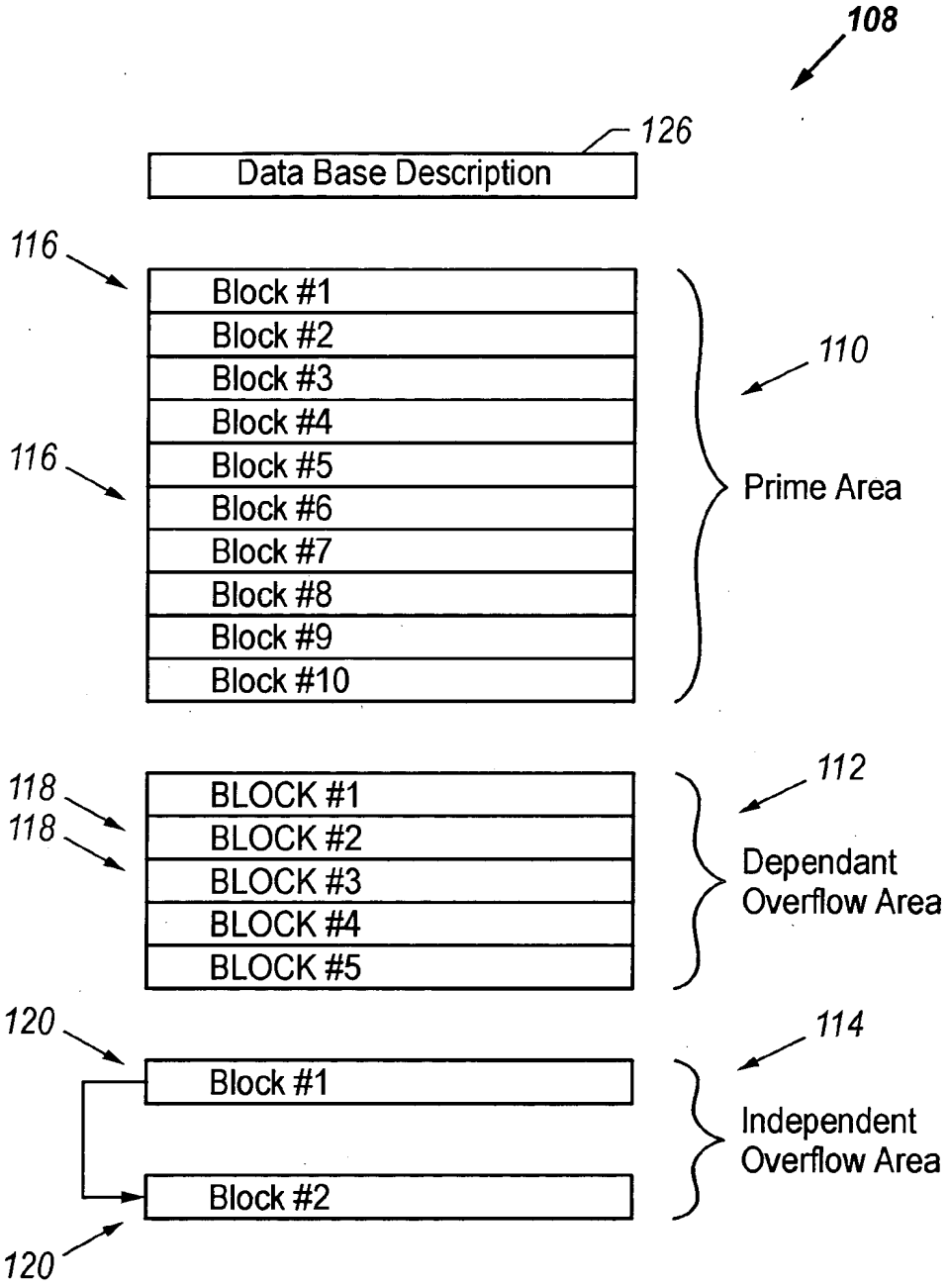

FIG. 12

Express Mail Label No. EV 339 695 705 US

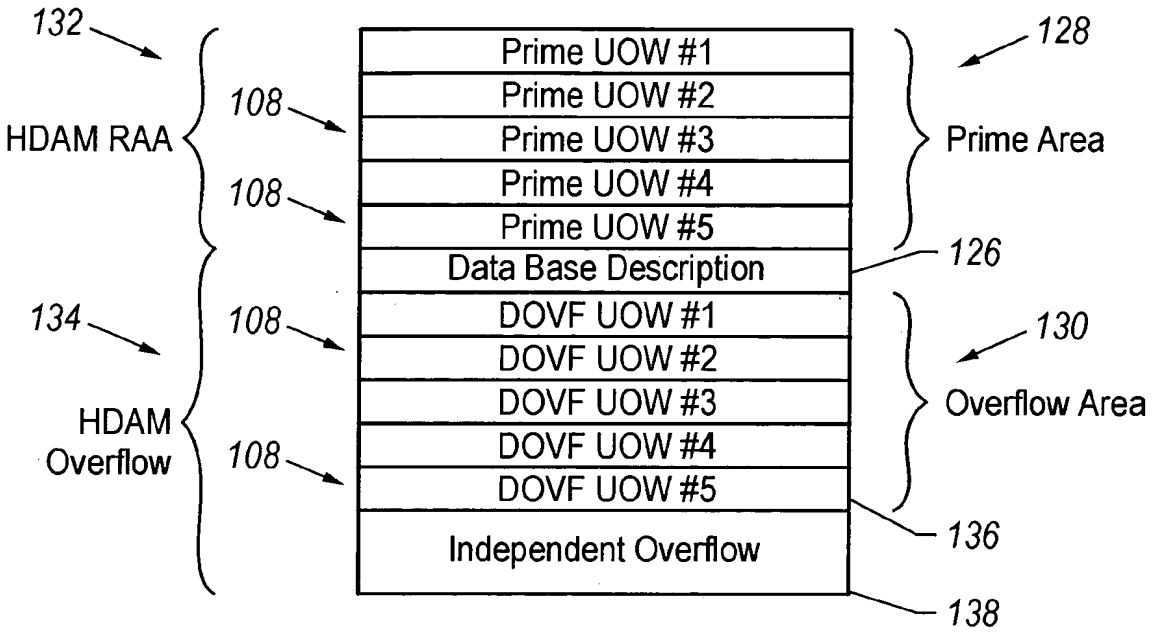

FIG. 13

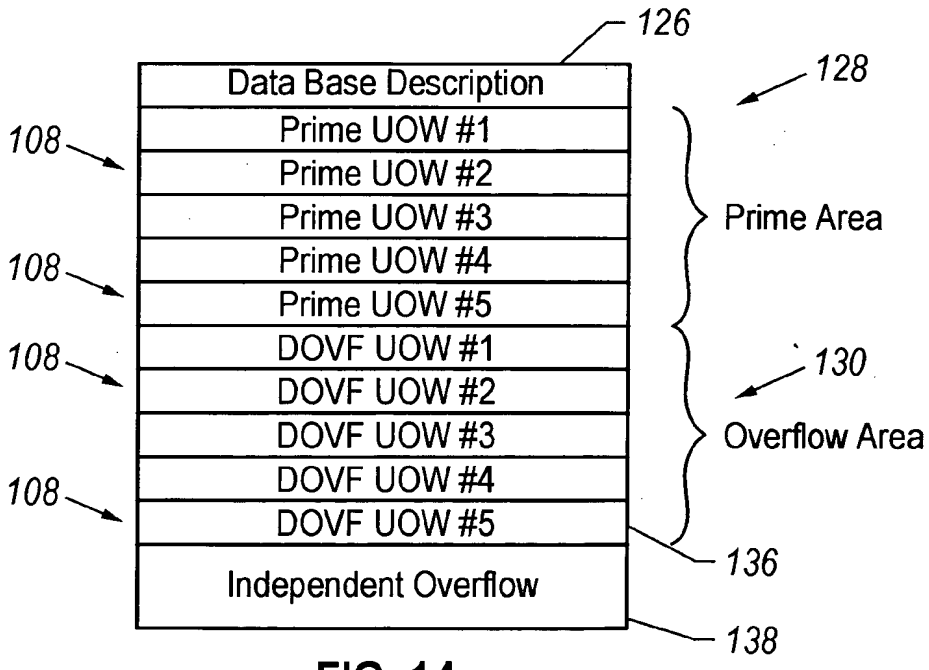

FIG. 14

20150303.3627.8008

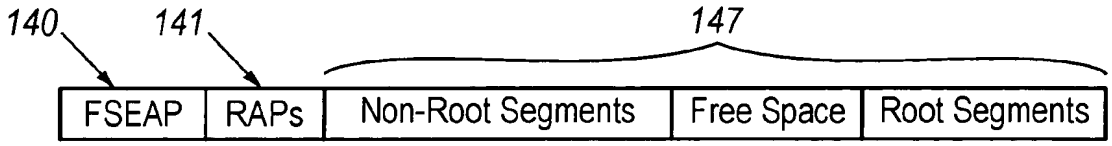

FIG. 15

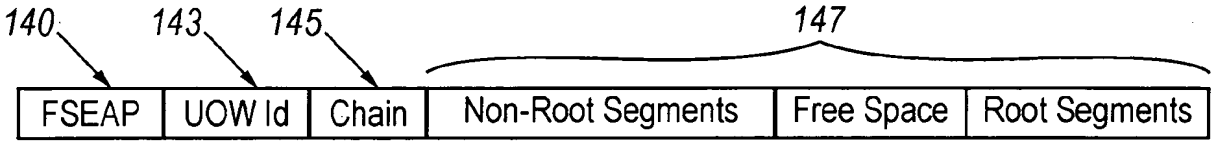

FIG. 16

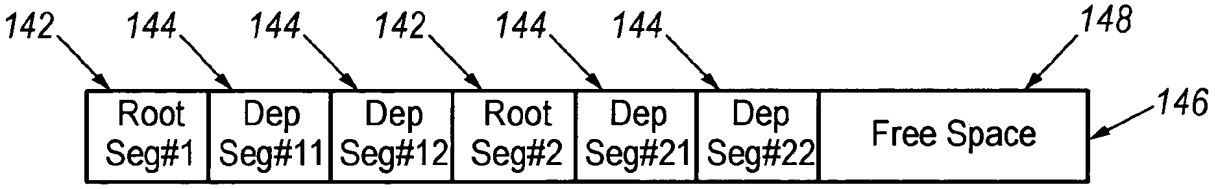

FIG. 17

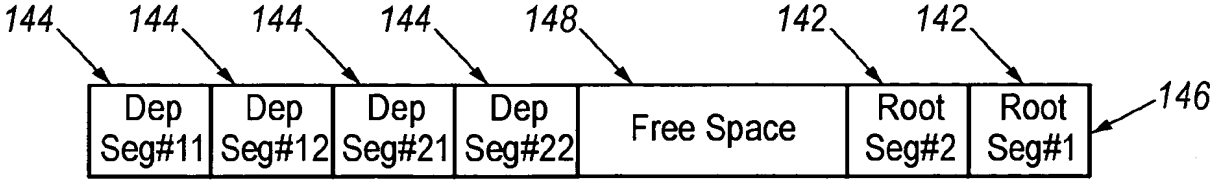

FIG. 18

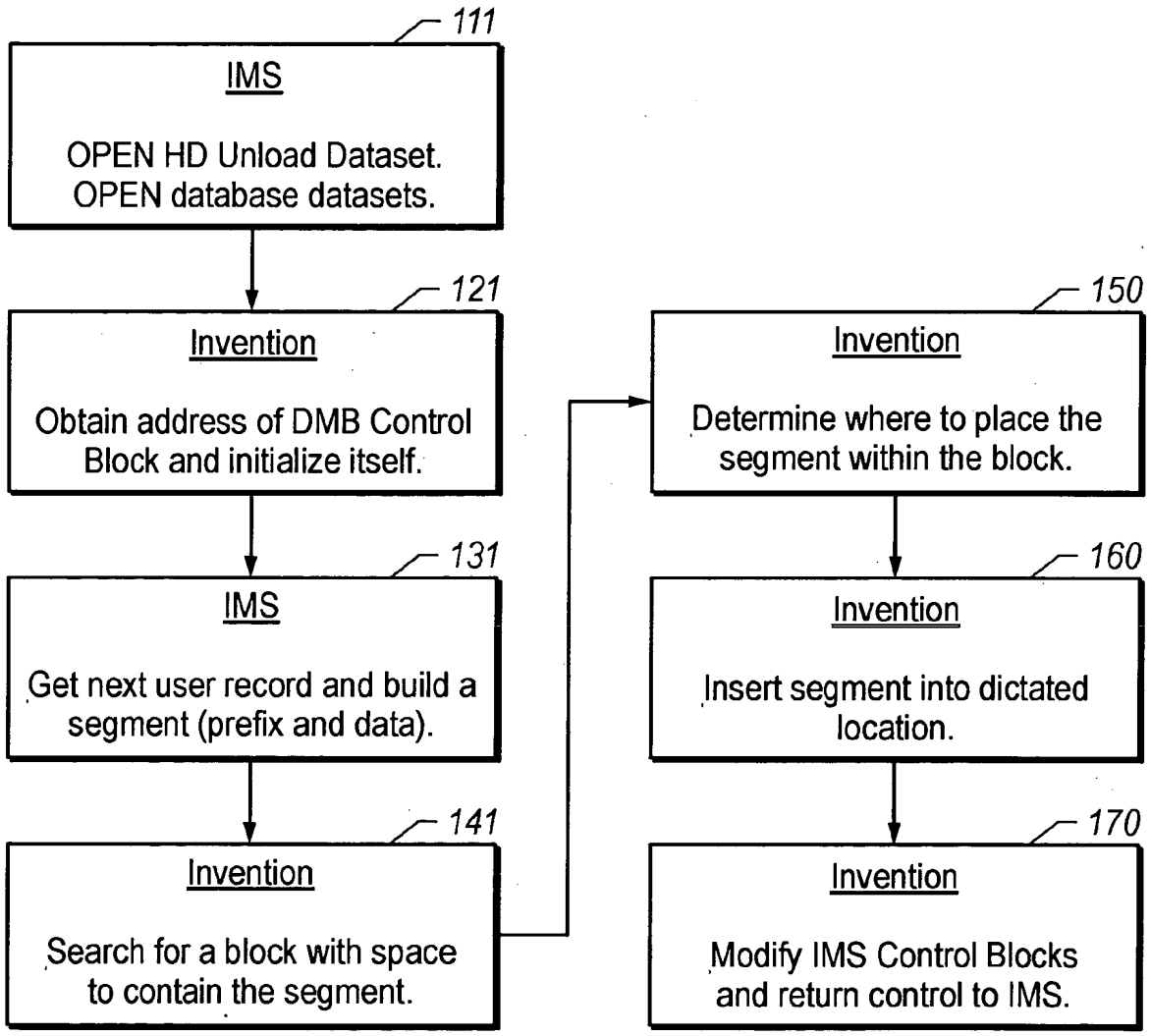
111
IMS
OPEN HD Unload Dataset.
OPEN database datasets.
121
Invention
Obtain address of DMB Control Block and initialize itself.
131
IMS
Get next user record and build a segment (prefix and data).
141
Invention
Search for a block with space to contain the segment.
150
Invention
Determine where to place the segment within the block.
160
Invention
Insert segment into dictated location.
170
Invention
Modify IMS Control Blocks and return control to IMS.

FIG. 19

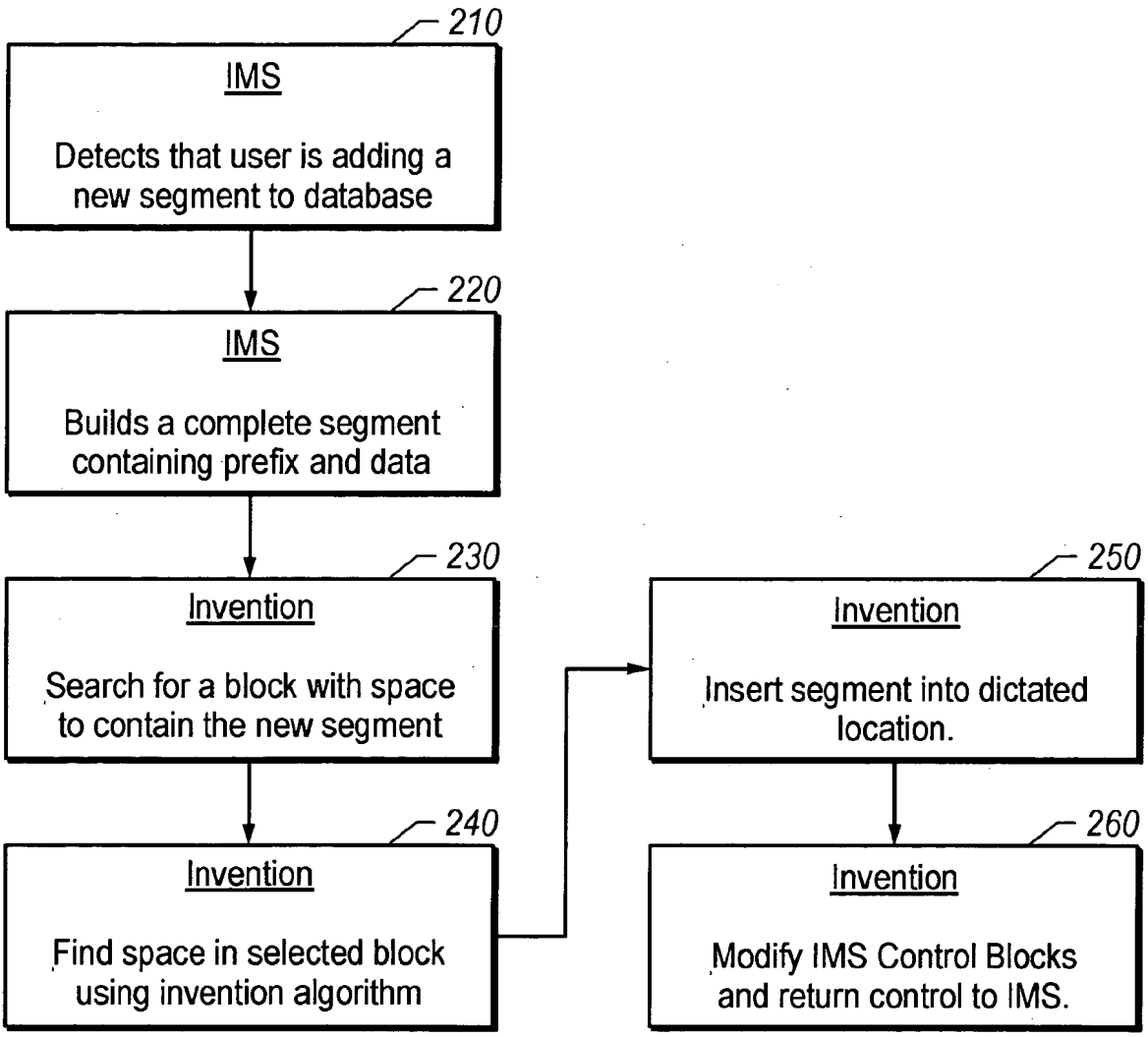
210
IMS
Detects that user is adding a new segment to database
220
IMS
Builds a complete segment containing prefix and data
230
Invention
Search for a block with space to contain the new segment
240
Invention
Find space in selected block using invention algorithm
250
Invention
Insert segment into dictated location.
260
Invention
Modify IMS Control Blocks and return control to IMS.

FIG. 20

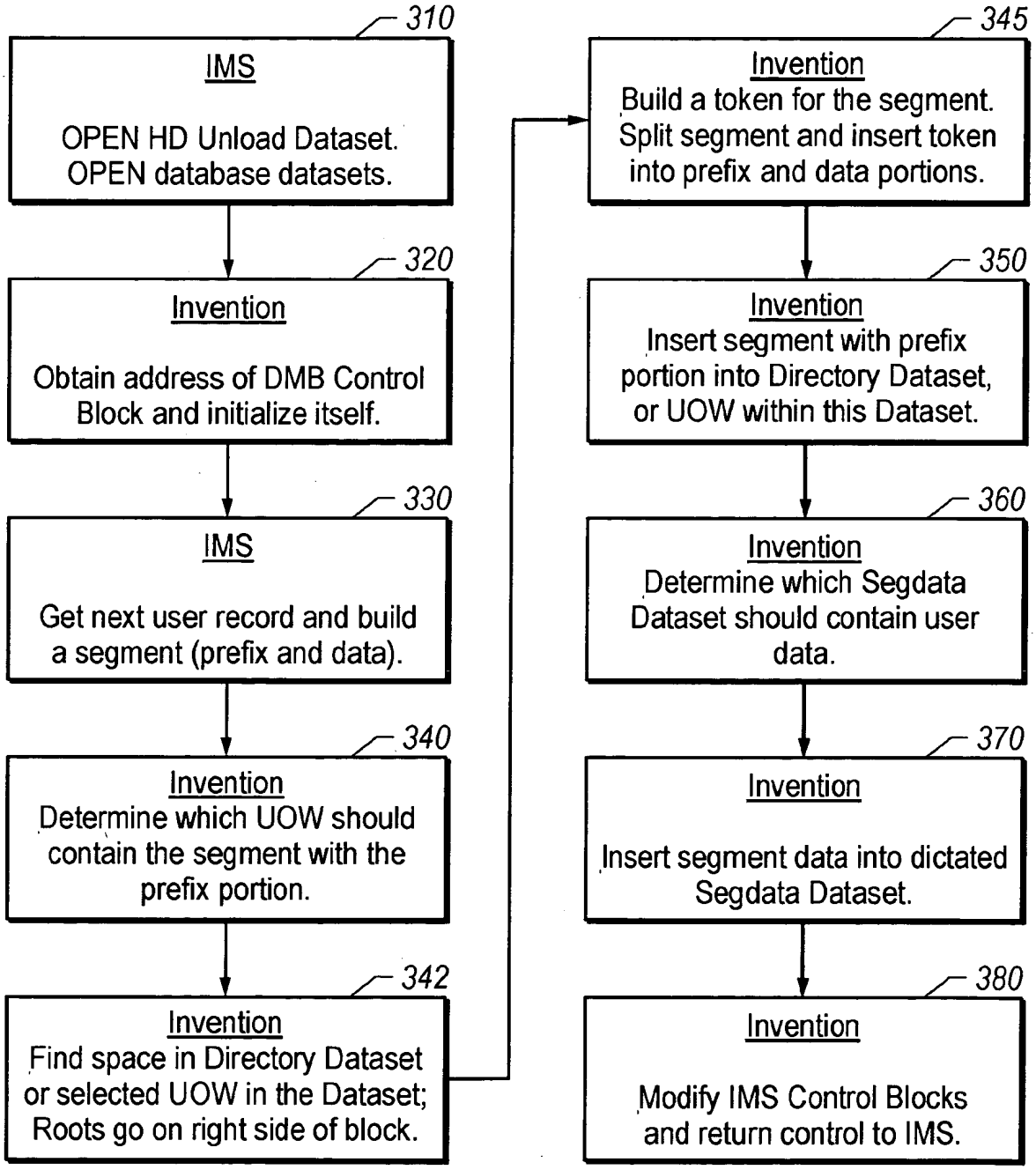
310
IMS
OPEN HD Unload Dataset.
OPEN database datasets.
320
Invention
Obtain address of DMB Control Block and initialize itself.
330
IMS
Get next user record and build a segment (prefix and data).
340
Invention
Determine which UOW should contain the segment with the prefix portion.
342
Invention
Find space in Directory Dataset or selected UOW in the Dataset; Roots go on right side of block.
345
Invention
Build a token for the segment. Split segment and insert token into prefix and data portions.
350
Invention
Insert segment with prefix portion into Directory Dataset, or UOW within this Dataset.
360
Invention
Determine which Segdata Dataset should contain user data.
370
Invention
Insert segment data into dictated Segdata Dataset.
380
Invention
Modify IMS Control Blocks and return control to IMS.

FIG. 21

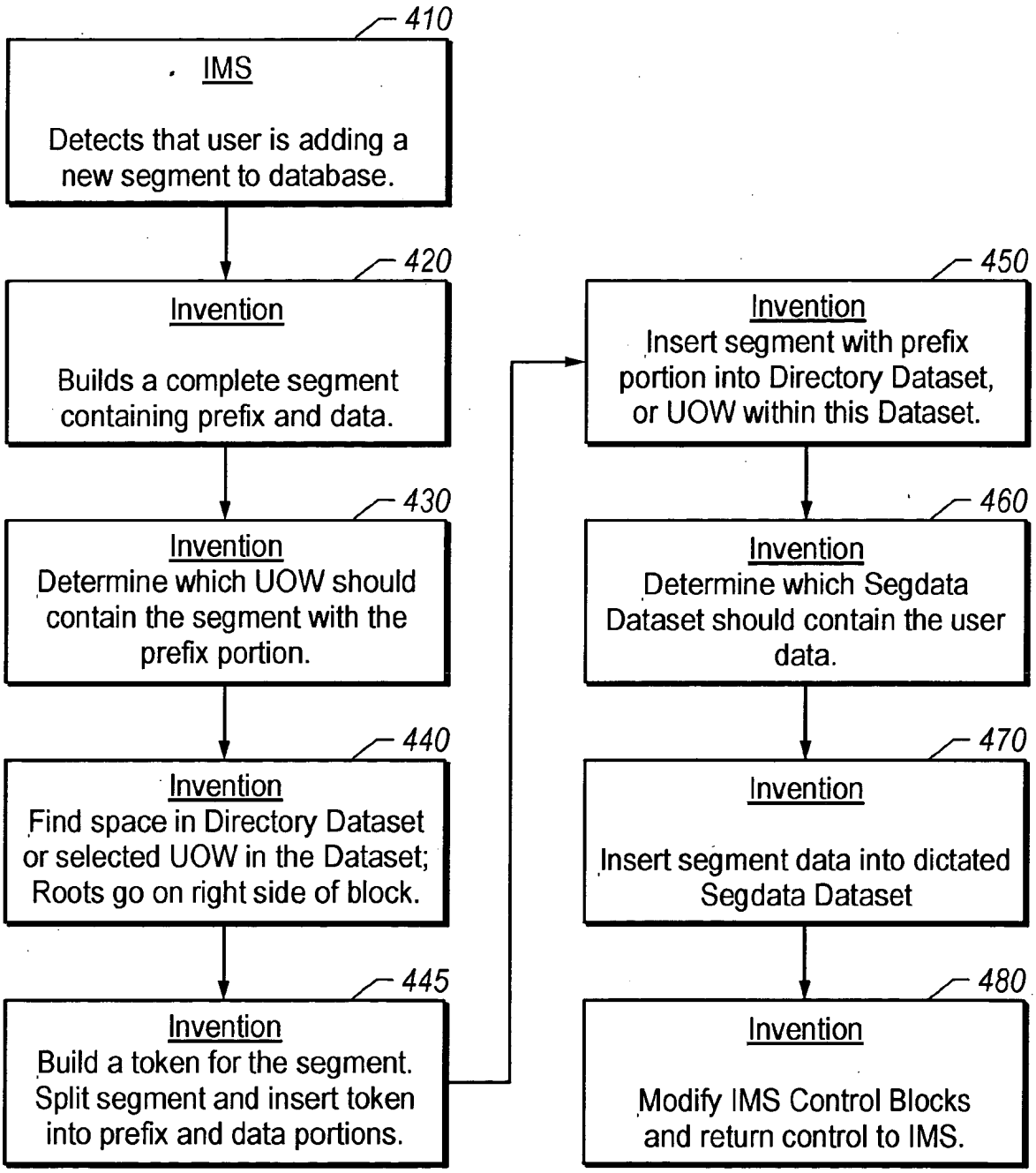

FIG. 22

Express Mail No. EV 045 763 905 US